BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work:Improvements to roads and drains at Doddabommasandra and surrounding areas in ward no 10 (Doddabommasandra), Vidyaranyapura Sub Division

BYATARAYANAPURA DIVISION

EMB

1st & Final Bill

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work:Improvements to roads and drains at Doddabommasandra and surrounding areas in ward no 10 (Doddabommasandra), Vidyaranyapura Sub Division

DETAILED-MEASUREMENTS

Name of Contractor : Sri. N.M Shivakumar
Estimated Cost:60.00 Lakh
Job Code: 010-20-000029

BRUHATH BANGALORE MAHANAGARAPAI
BYATARAYANAPURA DIVISION
1ST AND FINAL BILL

lame of Work: Improvements to roads and drains at Doddabommasandra and surrou ward no 0 (Doddabommasandra), Vidyaranyapura Sub Division

/ork Order No: BBMP/EE/BTP/WO/232/2019-2020, Dated:17-03-2020

ob Code: 010-20-000029

st Cost: 60.00 Lakhs

ame of the Contractor: - Sri. N.M Shivakumar

tem No	Description of Item	No	Length	B1	B2	Avg Breadth	Depth	Unit	Qty	Rate in Rs	Amount
1	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications.										
	Qty Taken from Pre measurement page Item No. 1, Page No.1 to 2							**Cum**	**624.15**	**1111.87**	**693968.10**
2	Earthwork excavation by manual means for roads, drains & similar works in ordinary soil invoiving , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification										
	Qty Taken from Pre measurement page Item No. 2, Page No.3 to 5							**Cum**	**402.64**	**388.48**	**156416.03**
3	Providing and laying in position plain cement concrete of Mix 1:4:8 with OPC @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM curing complete as per specifications.										
	Qty Taken from Pre measurement page Item No. 3, Page No.6 to 8							**Cum**	**468.32**	**5677.99**	**2659090.73**
4	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum) as per the directions of Engineer In-Charge										
	For CC Road										
	Hanumantha Temple Road										
	From Ramachandra pura Bus Stop to Ramachandra pura Main Road										
		1	15.00	4.40	3.80	4.10	0.125		7.69		
		1	15.00	3.80	3.90	3.85	0.125		7.22		
		1	15.00	3.90	4.50	4.20	0.125		7.88		
		1	5.60	4.50	5.00	4.75	0.125		3.33		
		1	12.20	3.20	3.10	3.15	0.125		4.80		
		1	15.00	3.50	3.20	3.35	0.125		6.28		
		1	2.00	2.70	2.70	2.70	0.125		0.68		
	Temple Surrounding Area										
		1	2.00	1.45	1.55	1.50	0.125		0.38		
		1	1.80	3.40	3.50	3.45	0.125		0.78		

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore

	1	8.00	4.75	4.75	4.75	0.125		4.75
	1	5.00	7.40	7.00	7.20	0.125		4.50
	1	10.20	6.20	6.80	6.50	0.125		8.29
	1	8.00	2.10	1.90	2.00	0.125		2.00
Bushra Store Road from Maramma Block Road								
	1	15.00	4.70	4.40	4.55	0.125		8.53
	1	15.00	4.40	4.60	4.50	0.125		8.44
	1	15.00	4.60	4.40	4.50	0.125		8.44
	1	15.00	4.40	3.90	4.15	0.125		7.78
	1	15.00	3.90	3.75	3.83	0.125		7.17
	1	15.00	3.75	4.30	4.03	0.125		7.55
	1	15.00	4.30	4.10	4.20	0.150		9.45
	1	15.00	4.10	4.50	4.30	0.125		8.06
	1	7.90	4.50	5.10	4.80	0.125		4.74
Continue Length Towards Ramachandra pura Main Road								
	1	15.00	5.25	4.90	5.08	0.125		9.52
	1	15.00	4.90	4.30	4.60	0.125		8.63
	1	15.00	4.30	3.00	3.65	0.125		6.84
	1	15.00	3.00	3.90	3.45	0.150		7.76
	1	15.00	3.90	3.35	3.63	0.125		6.80
	1	15.00	3.35	3.40	3.38	0.125		6.33
	1	7.00	3.40	4.00	3.70	0.125		3.24
Approach @ 1st Cross	1	3.00	1.00	1.00	1.00	0.15		0.45
R Chandrappa Layout								
5th Cross from Ramachandra pura Main road to Dead End								
	1	2.00	5.20	5.20	5.20	0.125		1.30
	1	15.00	5.90	5.20	5.55	0.125		10.41
	1	15.00	5.20	4.90	5.05	0.125		9.47
	1	12.60	4.90	4.90	4.90	0.15		9.26
	1	10.40	5.80	5.85	5.83	0.125		7.57
	1	7.80	6.45	6.50	6.48	0.125		6.31
3rd Cross from Ramachandra pura Main road to Dead End								
	1	10.40	6.70	6.70	6.70	0.15		10.45
	1	18.00	5.35	5.00	5.18	0.15		13.97
	1	15.00	6.30	6.10	6.20	0.125		11.63
	1	7.80	6.10	5.90	6.00	0.125		5.85
	1	5.20	5.00	5.10	5.05	0.125		3.28
2nd Cross from Ramachandra pura Main road to Dead End								
	1	15.00	6.45	6.00	6.23	0.15		14.01
	1	15.00	6.00	5.90	5.95	0.125		11.16
	1	15.00	5.90	6.00	5.95	0.125		11.16
	1	11.40	6.00	6.00	6.00	0.125		8.55
Approach @ Dead End	1	2.00	1.80	1.80	1.80	0.10		0.36
Ramp For Culvert	1	6.40	1.00	1.00	1.00	0.10		0.64
1st Cross from Ramachandra pura Main road to Dead End								
	1	15.00	4.80	5.30	5.05	0.125		9.47
	1	15.00	5.30	5.40	5.35	0.125		10.03
	1	15.00	5.40	6.30	5.85	0.125		10.97
	1	11.00	4.80	5.60	5.20	0.125		7.15
Ramp For Culvert	1	8.50	0.75	0.75	0.75	0.125		0.80
1st Cross,KNV 2nd Stage (Near Lokesh Building House)								
	1	15.00	4.00	4.00	4.00	0.125		7.50
	1	15.00	4.00	5.00	4.50	0.125		8.44
	1	15.00	5.00	5.30	5.15	0.125		9.66
	1	15.00	5.30	5.50	5.40	0.125		10.13
	1	15.00	5.50	5.50	5.50	0.125		10.31
Deduction								
Hanumantha Temple Road								
Man Hole	-2		(3.142*0.9*0.9)/4			0.125		-0.16

29.04

397.46

Temple Surrounding Area										
	-1	2.00	1.50	1.50	1.50	0.125		-0.38		
Bande Muneshwara Temple	-1	3.30	3.30	3.30	3.30	0.125		-1.36		
	-1	1.80	1.25	1.25	1.25	0.125		-0.28		
Man Hole	-1		(3.142*0.9*0.9)/4			0.125		-0.08		
Bushra Store Road										
Man Hole	-4		(3.142*0.9*0.9)/4			0.125		-0.32		
Borewell	-1		(3.142*0.3*0.3)/4			0.125		-0.01		
Electrical Poles	-6	0.25	0.25	0.25	0.25	0.125		-0.05		
5th Cross										
Man Hole	-1		(3.142*0.9*0.9)/4			0.125		-0.08		
Electrical Poles	-4	0.25	0.25	0.25	0.25	0.125		-0.03		
Chamber	-1	1.60	1.80	1.80	1.80	0.125		-0.36		
3rd Cross										
Man Hole	-3		(3.142*0.9*0.9)/4			0.125		-0.24		
Steps	-1	2.50	0.30	0.30	0.30	0.125		-0.09		
	-1	2.00	1.00	1.00	1.00	0.125		-0.25		
	-1	3.80	1.00	1.00	1.00	0.125		-0.48		
2nd Cross										
Man Hole	-1		(3.142*0.9*0.9)/4			0.125		-0.08		
Electrical Poles	-2	0.25	0.25	0.25	0.25	0.125		-0.02		
Ramp	-1	3.50	0.90	0.90	0.90	0.125		-0.39		
	-1	2.00	0.60	0.60	0.60	0.125		-0.15		
	-1	3.80	1.00	1.00	1.00	0.125		-0.48		
	-1	4.80	0.45	0.45	0.45	0.125		-0.27		
	-1	2.40	1.20	1.20	1.20	0.125		-0.36		
Entrance Gates	-1	3.20	1.00	1.00	1.00	0.125		-0.40		
	-1	3.50	0.80	0.80	0.80	0.125		-0.35		
1st Cross										
Man Hole	-2		(3.142*0.9*0.9)/4			0.125		-0.16		
trees area	-4		(3.142*0.3*0.3)/4			0.125		-0.04		
Ramp	-1	1.20	1.20	1.20	1.20	0.125		-0.18		
						Present Qty	**Cum**	**391.08**	**5384.18**	**2105630.98**
									Total	**5615105.84**
									GST Charges 12%	**673812.70**
									Grand Total	**6288918.54**

Assistant Engineer
Ward No.10

Assistant Executive Engineer
Vidyaranyapura Sub Division